COURSE NAME

Name: **PROJECTS**
Code: 101189
Curriculum: **DEGREE IN ENERGY ENGINEERING AND MINERAL RESOURCES** Year: 2
Name of the module to which it belongs: COMMON MODULE FOR THE MINING BRANCH
Subject: CONSTRUCTION PROCEDURES AND PROJECTS
Nature: OBRIGATORY Duration: SECOND SEMESTER
ECTS Credits: 6 Classroom hours: 60
Face-to-face classroom percentage: 40% Non-contact hours: 90

FACULTY DETAILS

Name: RECUERO RECUERO, TEODOMIRO MIGUEL (Coordinator)
Department: RURAL ENGINEERING
Area: ENGINEERING PROJECTS
Location of the office: Aulario Emilio Iznardi (EPSBelmez)
E-Mail: ir1reret@uco.es Phone number: 607800686

SKILLS

CB1	Have and understand specific knowledge of the field of study of mining engineering.
CB2	Have and understand current and cutting-edge knowledge of the field of mining engineering.
CB3	Be able to apply the knowledge acquired in professional contexts and to elaborate and defend arguments in the field of knowledge of mining engineering.
CB4	Solve problems within the study area of Mining Engineering.
CU3	Promote active job search habits and entrepreneurship
CEC10	Ability to analyze health and safety concerns in projects, plants or facilities.
CEC12	Ability to apply environmental impact study and assessment methods and, in general, environmental technologies, sustainability and waste treatment methods.
CEC13	Ability to plan and comprehensively manage works, measurements, stakeouts, control and monitoring.
CEC15	Knowledge of the methodology, management and organization of projects.

OBJECTIVES

For the student to learn the basic concepts related to Engineering Projects (documents, writing them, contracting and execution procedures and basic legislation), planning methods, surveying and evaluating works, and issues related to project management in urban planning and spatial planning, environment and other project evaluations. Also, to learn the procedures for obtaining permits and authorizations related to Engineering Projects.

CONTENTS:

1. Theoretical contents

1. Projects in Engineering.
2. Project life cycle Agents involved. The project team.
3. Project feasibility and evaluation. Urban, environmental and financial feasibility of projects.
4. Project planning. Objectives and strategies for developing a project.
5. Regulations. Basic and specific legislation for drafting projects and environmental evaluations.
6. Principles of project and works management.

7. Project documents. Reports, prints and specifications
8. Project documents. Budgeting. Project indicators and evaluations. Production control.
9. Project contracting and execution.
10. Project launch and completion. Bonds, guarantees and liabilities.
11. Urban Planning and Management related to projects.

2. Practical contents.

1. Strategy for formulating a project. Group case study.
2. Project regulations and documentation. Group case study.
3. Problem solving. Financial evaluation of projects.
4. Problem solving. Preparing a project budget.
5. Assessment and monitoring of works progress. Presentation of applicable case.
6. Practical training.
7. Writing a Basic Project
8. Investigation of the planning instruments of Territories.